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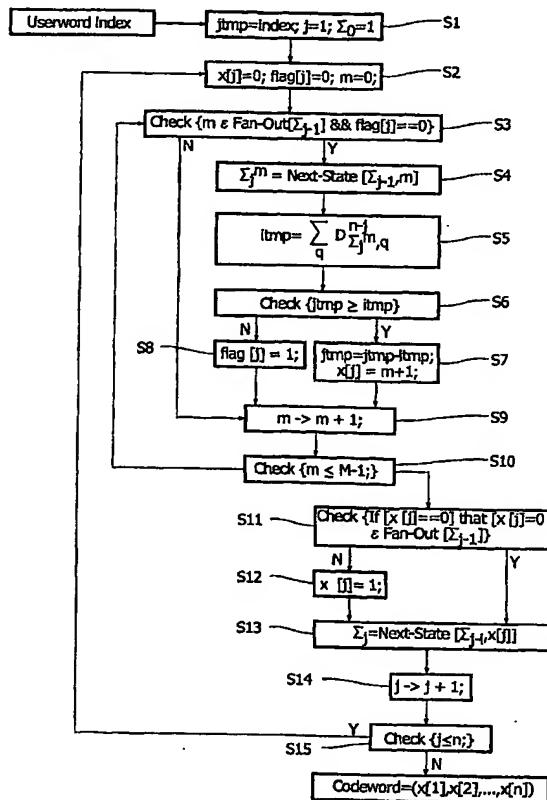
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(54) Title: TWO-DIMENSIONAL MODULATION ENCODING FOR HIGH DENSITY OPTICAL STORAGE



(57) Abstract: The present invention relates to an encoding apparatus and a corresponding method for two-dimensionally encoding user data of a user data stream into channel data of a channel data stream along a two-dimensional channel strip of at least two bit rows onedimensionally evolving along a first direction and being aligned with each other along a second direction, said two directions constituting a two-dimensional lattice of bit positions. According to the invention the apparatus comprises a modulation code encoder for modulation code encoding said user data into said channel data according to a twodimensional modulation code being adapted to prevent predetermined worst case patterns of channel data in said channel data stream. The worst-case patterns are typical for high-density two-dimensional optical storage channels.

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